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### Aluminum oxide [1344-28-1]

Synonyms: alpha-Alumina; alpha-Alumina trihydrate; Activated Alumina; Aloxite; Alumina; Alumina acidic; Alumina basic; Alumina neutral; Aluminite 37; Aluminum oxide; Aluminum Oxide, Acidic; Aluminum Oxide, Activated; Aluminum Oxide, Basic; Aluminum oxide (fibrous forms); Alundum; Basic alumina; Boileezers; Corundum; Delta alumina; sapphire; sigma-alumina; Theta alumina; gamma-Alumina;

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Formula	Al <sub>2</sub> O <sub>3</sub>	Molecular Weight	101.96128
CAS RN	1344-28-1	Melting Point (°C)	2030
ACX Number	X1000214-5	Boiling Point (°C)	2977
Density	3.97	Vapor Density	
Refractive Index		Vapor Pressure	
Evaporation Rate		Water Solubility	Insoluble
Flash Point (°C)		EPA Code	
DOT Number		RTECS	BD1200000
Comments	White powder or solid		

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## Zirconia, ZrO<sub>2</sub>

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**Subcategory:** Ceramic; Oxide, Zirconium

**Key Words:** Zirconium Oxide

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Physical Properties	Metric	English	Comments
Density	5.68 g/cc	0.205 lb/in <sup>3</sup>	monoclinic
Density	6.1 g/cc	0.22 lb/in <sup>3</sup>	tetragonal

### Thermal Properties

CTE, linear 20°C	7 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	3.89 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	monoclinic
CTE, linear 20°C	12 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	6.67 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	tetragonal
Thermal Conductivity	1.675 W/m-K	11.6 BTU-in/hr-ft <sup>2</sup> ·°F	m
Melting Point	2681 - 2847 °C	4860 - 5160 °F	

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### Ferric oxide [1309-37-1]

Synonyms: diiron trioxide; C.I. 77491; English iron oxide red; Iron (III) oxide; Ferric oxide; Iron(III) oxide dihydrate; FERRIC OXIDE, 99.99%; FERRIC OXIDE FUME; Ferric oxide red; Iron oxide; Iron oxide (Fe<sub>2</sub>O<sub>3</sub>); Iron oxide red; Pigment red 101; Red iron oxide; Rouge;

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	<b>CAS RN Lookup</b> <a href="#">THE MERCK INDEX</a> <a href="#">NCI DATABASE</a>	

Formula	Fe <sub>2</sub> O <sub>3</sub>	Molecular Weight	159.6882
CAS RN	1309-37-1	Melting Point (°C)	1538
ACN Number	X1002529-9	Boiling Point (°C)	
Density	5.24	Vapor Density	
Refractive Index		Vapor Pressure	
Evaporation Rate		Water Solubility	insoluble
Flash Point (°C)		EPA Code	
DOT Number	UN 1376	RTECS	NO7400000
Comments	Red-brown fume with a metallic taste		

More information about the chemical is available in these categories:

<http://chemfinder.cambridgesoft.com/result.asp?molid=1309-37-1>

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Lead oxide [1317-36-8]

Synonyms: C.I. 77577; Lead (II) oxide; Lead(II)oxide, yellow; plumbous oxide; Lead monoxide; Lead ocher; Lead oxide; LEAD OXIDE, 99.99%; Lead oxide(mono); Lead oxide (PbO); Lead oxide yellow; Lead protoxide; Litharge; Litharge yellow L-28; Massicot; Massicotite; Pigment yellow 46; Yellow lead ocher;

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<b>Formula</b>	OPb	<b>Molecular Weight</b>	223.1994
<b>CAS RN</b>	1317-36-8	<b>Melting Point (°C)</b>	888
<b>ACX Number</b>	X1000234-7	<b>Boiling Point (°C)</b>	1470
<b>Density</b>	9.53	<b>Vapor Density</b>	
<b>Refractive Index</b>		<b>Vapor Pressure</b>	
<b>Evaporation Rate</b>		<b>Water Solubility</b>	
<b>Flash Point (°C)</b>		<b>EPA Code</b>	
<b>DOT Number</b>	UN 1479	<b>RTECS</b>	OG1750000
<b>Comments</b>			

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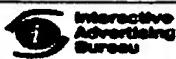
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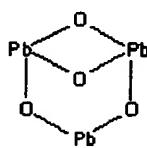
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## Lead(II,IV) oxide [1314-41-6]

Synonyms: Lead (II,III) oxide; Lead(II,IV) oxide; Lead oxide; Lead Tetraoxide; Lead tetroxide; Mineral red; orange lead; Red lead oxide;

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Formula	$O_4Pb_3$	Molecular Weight	685.5976
CAS RN	1314-41-6	Melting Point (°C)	500
ACX Number	X1000235-4	Boiling Point (°C)	
Density		Vapor Density	
Refractive Index		Vapor Pressure	
Evaporation Rate		Water Solubility	
Flash Point (°C)		EPA Code	
DOT Number		RTECS	OG5425000
Comments	OXIDIZING MATERIAL.		

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Zinc oxide [1314-13-2]

Synonyms: C.I. pigment white 4; Flowers of zinc; Zinc oxide; ZINC OXIDE, FUME; Zinc white;



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Formula	OZn	Molecular Weight	81.3894
CAS RN	1314-13-2	Melting Point (°C)	1975
ACX Number	X1002594-6	Boiling Point (°C)	
Density	5.606	Vapor Density	
Refractive Index		Vapor Pressure	
Evaporation Rate		Water Solubility	insoluble
Flash Point (°C)		EPA Code	
DOI Number	1436	RTECS	ZH4810000
Comments	white solid, Color Index = CI 77947		

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## Tungsten (IV) Oxide, $WO_2$

 [Printer friendly version](#)**Subcategory:** Ceramic; Oxide, Other**Key Words:**  $WO_2$ **Material Notes:**

Blue monoclinic crystals

No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	10.8 g/cc	0.39 lb/in <sup>3</sup>	
Molecular Weight	215.84 g/mol	215.84 g/mol	

**Electrical Properties**

Magnetic Susceptibility	0.000057	0.000057	$m^3/mol$
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**Thermal Properties**

Decomposition Temperature	1500 - 1700 °C	2730 - 3090 °F
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**Descriptive Properties**

Color	Blue
Crystal Structure	Monoclinic

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